

DSP Amplifier Firmware Update

Firmware Update – Version 2 or Newer Network Hardware [release update November 2025]

NOTE: IF UPDATING TO VERSION FIRMWARE VERSION 64 / WEB UI VERSION 32 (RELEASE DATE NOVEMBER 10, 2025) FROM AN EARLIER VERSION:

- THE FILE IS NOW A SINGLE STEP. THERE IS NO MORE “STEP1” AND “STEP2” REQUIRED.
- DUE TO THIS, THE INSTRUCTIONS HAVE CHANGED SLIGHTLY FROM EARLIER UPDATES, SEE BELOW.
- YOU WILL NEED TO CLEAR THE CACHE ON YOUR BROWSER TO RELOAD THE FILES OR IT WILL NOT “GO ONLINE”

Below are instructions for updating firmware in the SA-x Amplifiers with the new network hardware/controller.

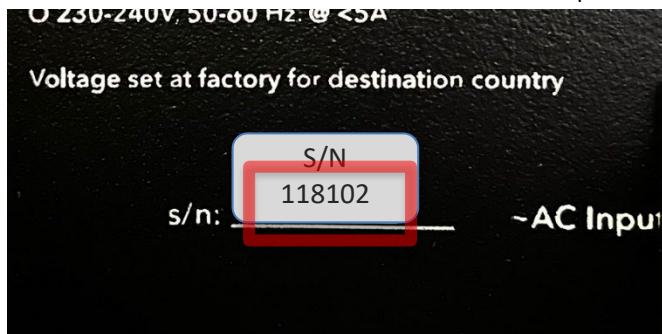
SA-3DSP is shown, but the steps are the same for:

- SA-2DSP
- SA-3DSP
- SA-8DSP
- SW-1DSP
- IA-8DSP

NOTE: You must identify the version of hardware you have before beginning. These instructions and the firmware are only for the newer hardware. New hardware can be identified in one of three ways.

If *any one* of the below 3 options are true, you have the newer network hardware and can continue to the firmware update process.

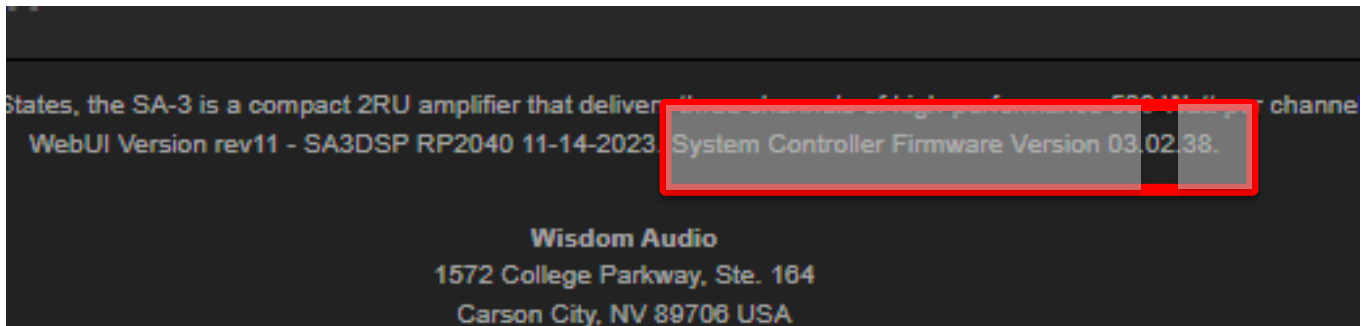
1. Serial # beginning with **SN# 118102** and higher. If your unit has a serial # higher than this, you have the GEN 2 hardware. The serial number sticker will be located on the rear panel either near the A/C inlet or next to the DANTE port:



2. "V2" Sticker on the rear panel with the MAC Address. This is located near the Ethernet Port on the rear panel:



3. Checking the WebUI Audio System home page. The Firmware Version will have xx.02.yy or higher in the number to show it is REV 02 hardware compatible:

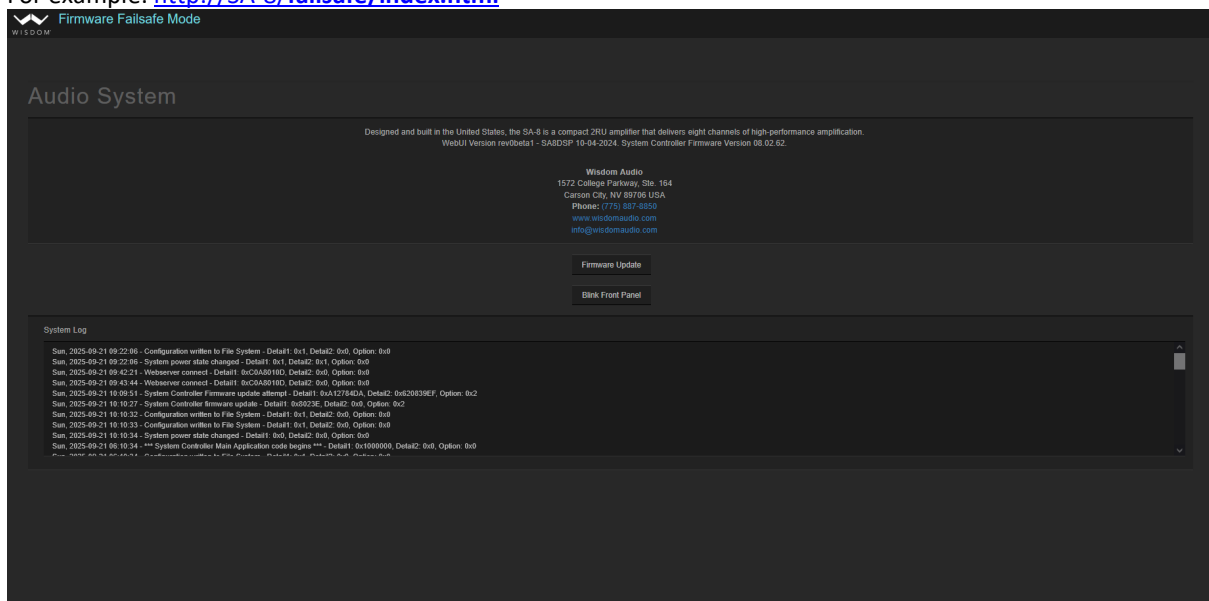


NOTE:

There is a fall back firmware update page if for some reason the files become corrupt on the webserver.

The Failsafe page should automatically load if the webpage files cannot be loaded properly. In this case you will see the host name or IP address of the amplifier under test to be appended with `.../failsafe/index.html`

For example: <http://SA-8/failsafe/index.html>

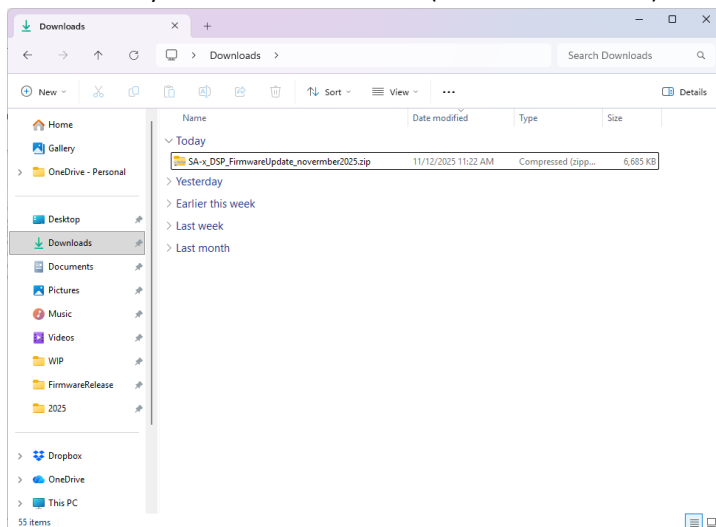


Required tools/setup:

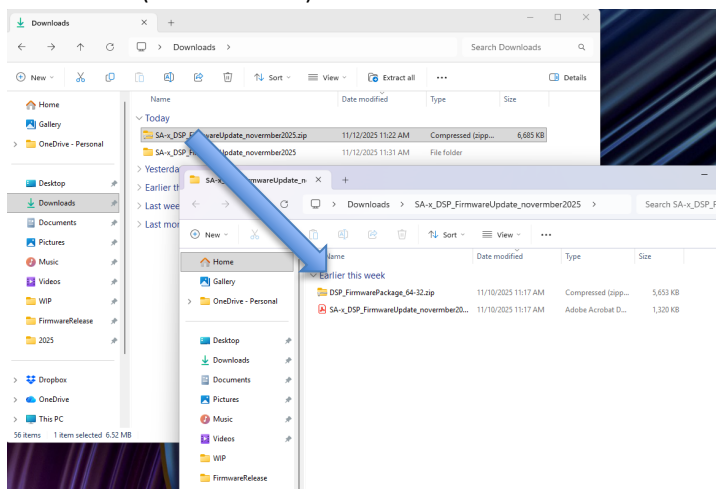
- Ethernet connection to the amplifier
- Firmware Files provided by Wisdom Audio
 - ZIP file Containing all files and instructions including:
 - **DSPFirmwarePackage-xx-yy**
 - **PDF of Instructions (this document)**
 - The **xx** and **yy** will have the Version Numbers for the System Controller Hardware and Web UI files.

Download and unzip the files:

- Download the ZIP from www.wisdomaudio.com – Under **RESOURCES** in the PRODUCT page
- ZIP will be in your **DOWNLOADS** folder (Windows or MacOS)



- UNZIP the download but **DO NOT UNZIP** the DSP PACKAGE FILE. This is the file that will be uploaded! The PDF is the instructions (this document).



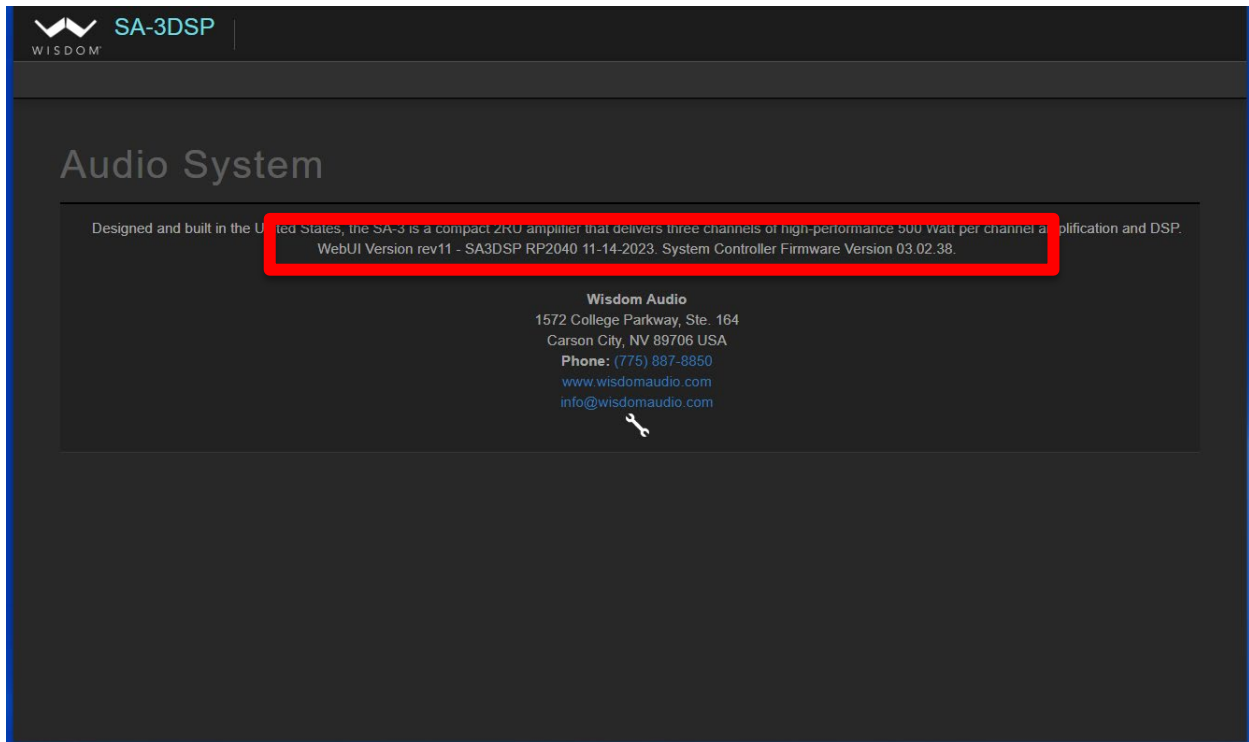
Firmware Update from Web UI over Ethernet

If you have not identified the correct hardware on page 1, go back and make sure you are reading the correct instructions. The firmware will not load into the wrong hardware.

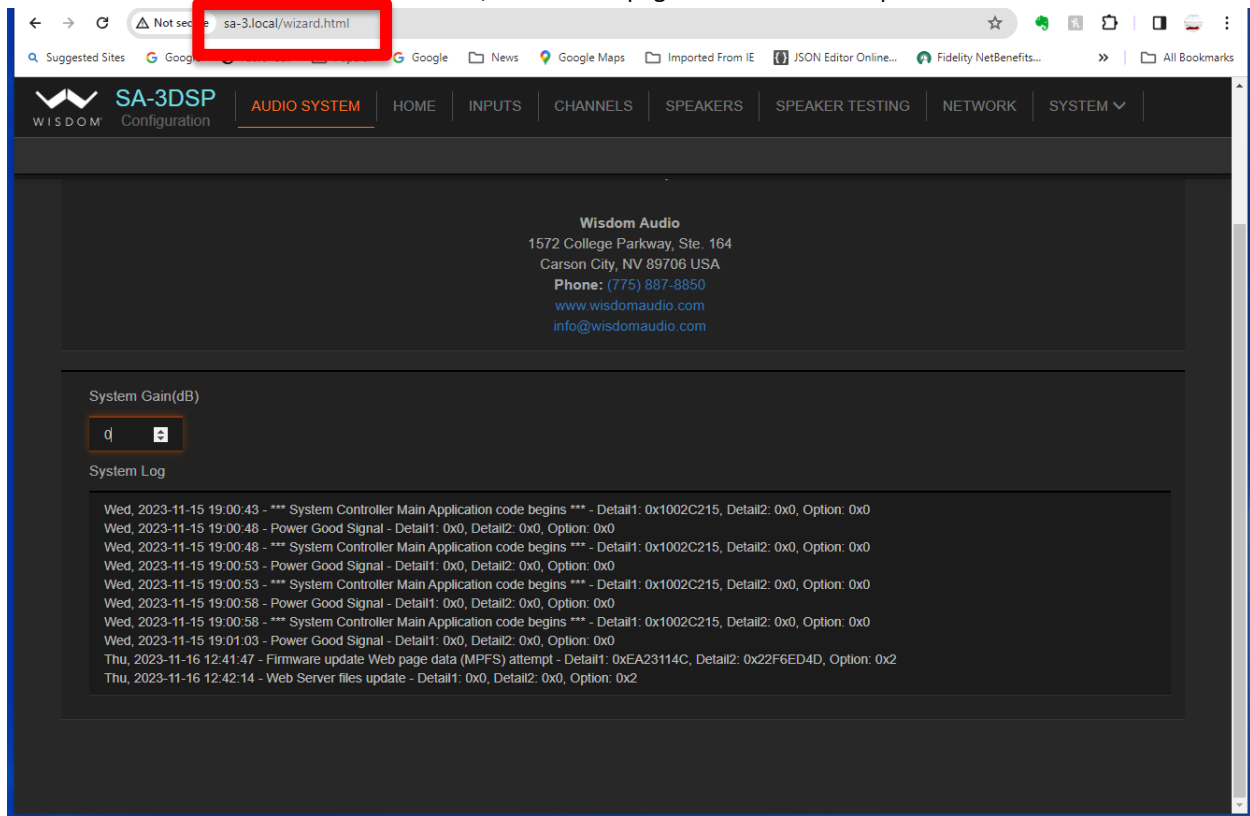
The download from www.WisdomAudio.com zip files and a PDF. Place the Zip File on your computer (desktop or other location) **but do not unzip**. The PDF has the same instructions as this page.

Go to the webpage on your local network for the amplifier to be updated. For example: <http://SA-3.local> or <http://192.168.1.xxx>, as shown below.

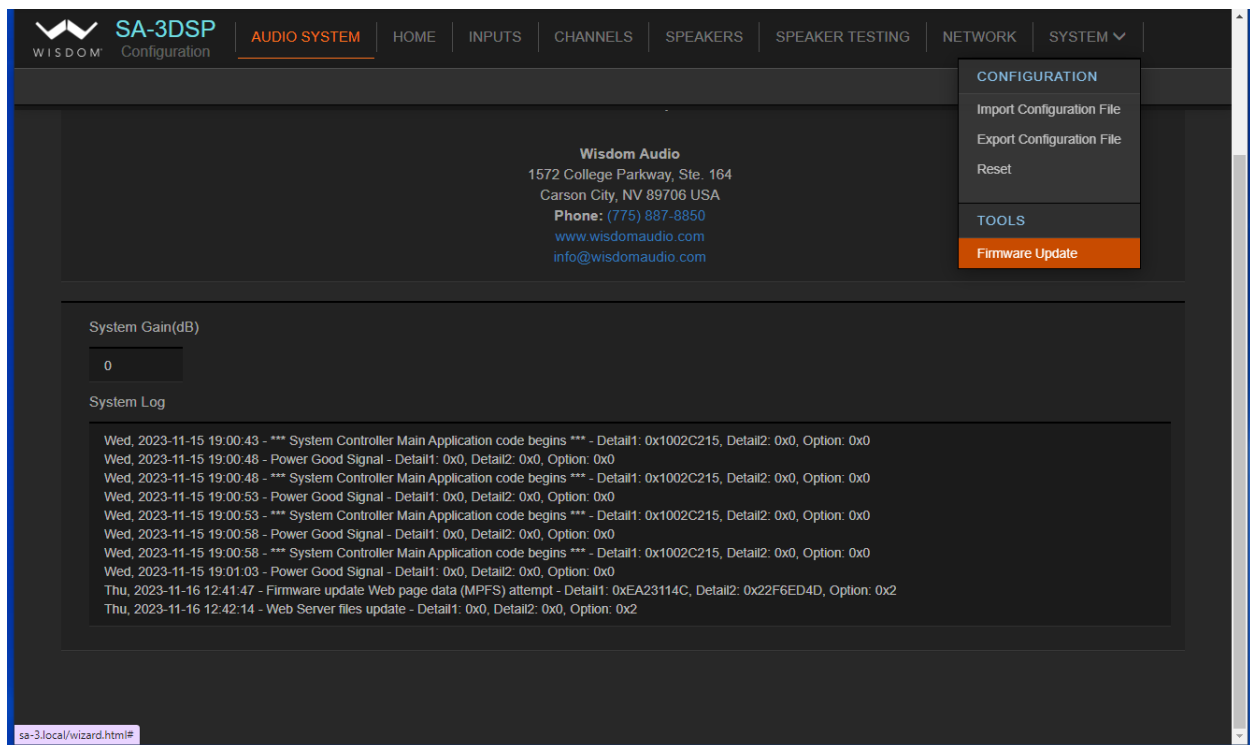
1. Check the current firmware: WebUI Version is the current webpage server files that you see; the System Controller Firmware Version is the operating system of the amplifier →



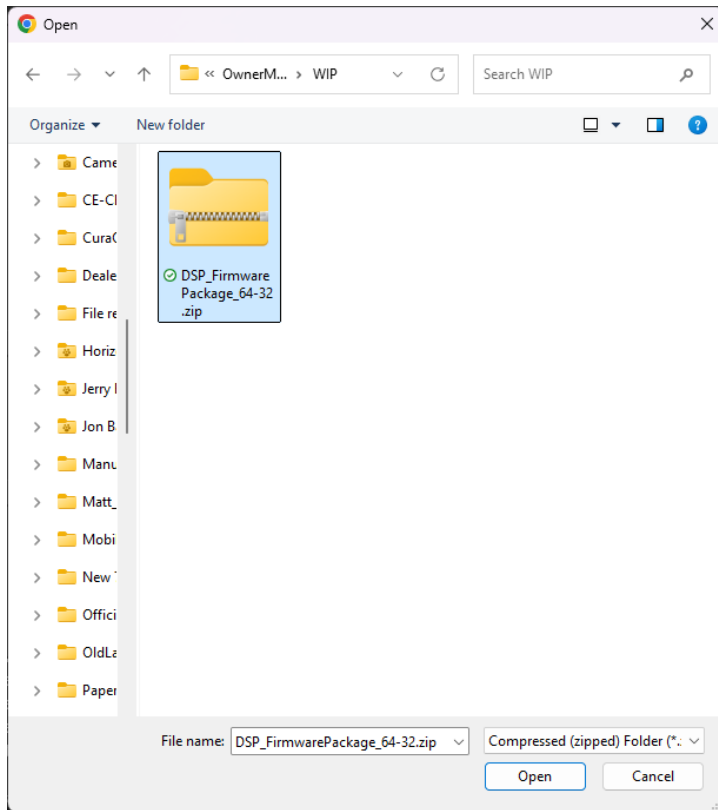
2. Click on the Wrench Icon or navigate to the /wizard.html page for advanced setup:



3. SYSTEM→FIRMWARE UPDATE

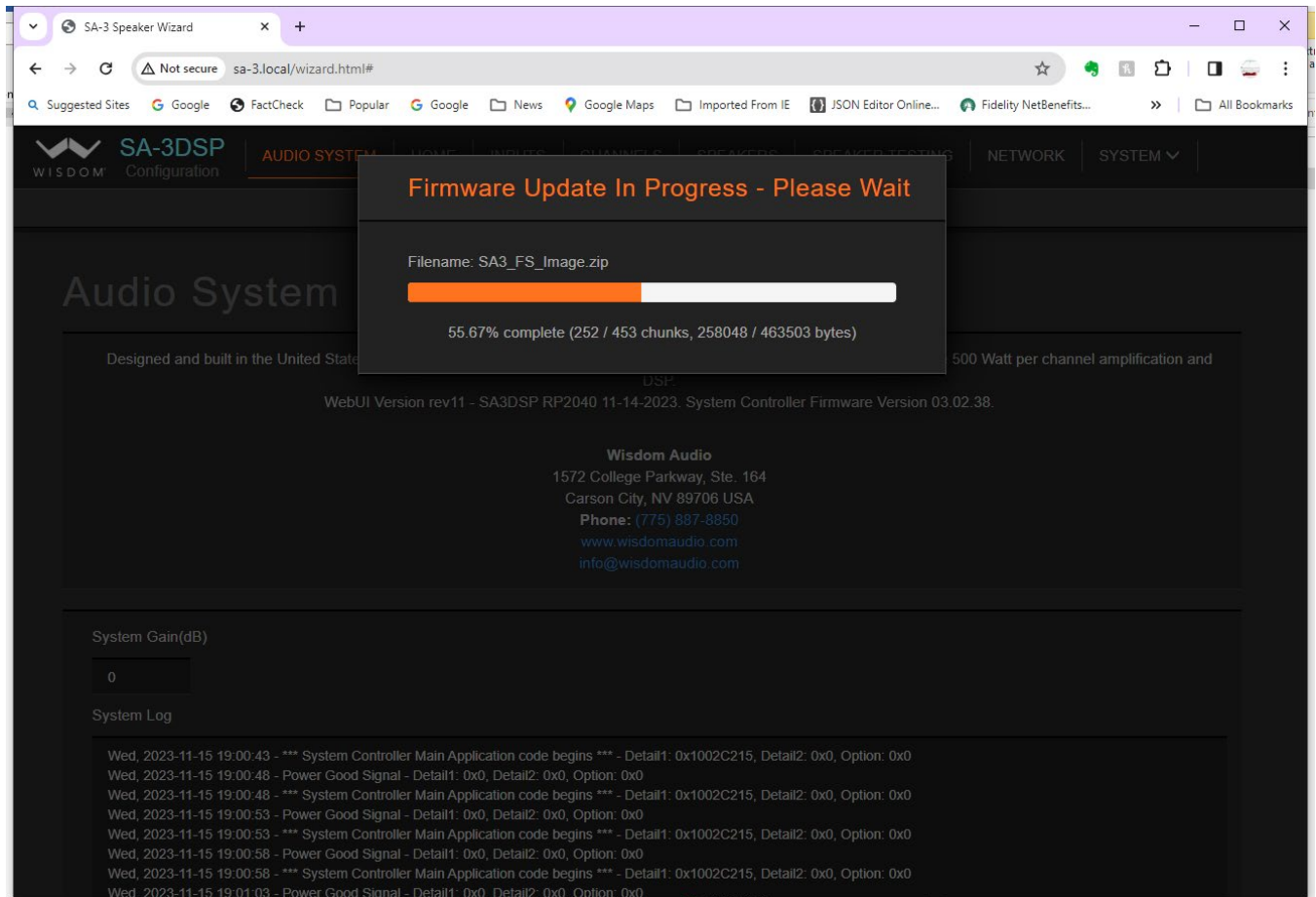


4. Choose the **ZIP** file previously downloaded from Wisdom:

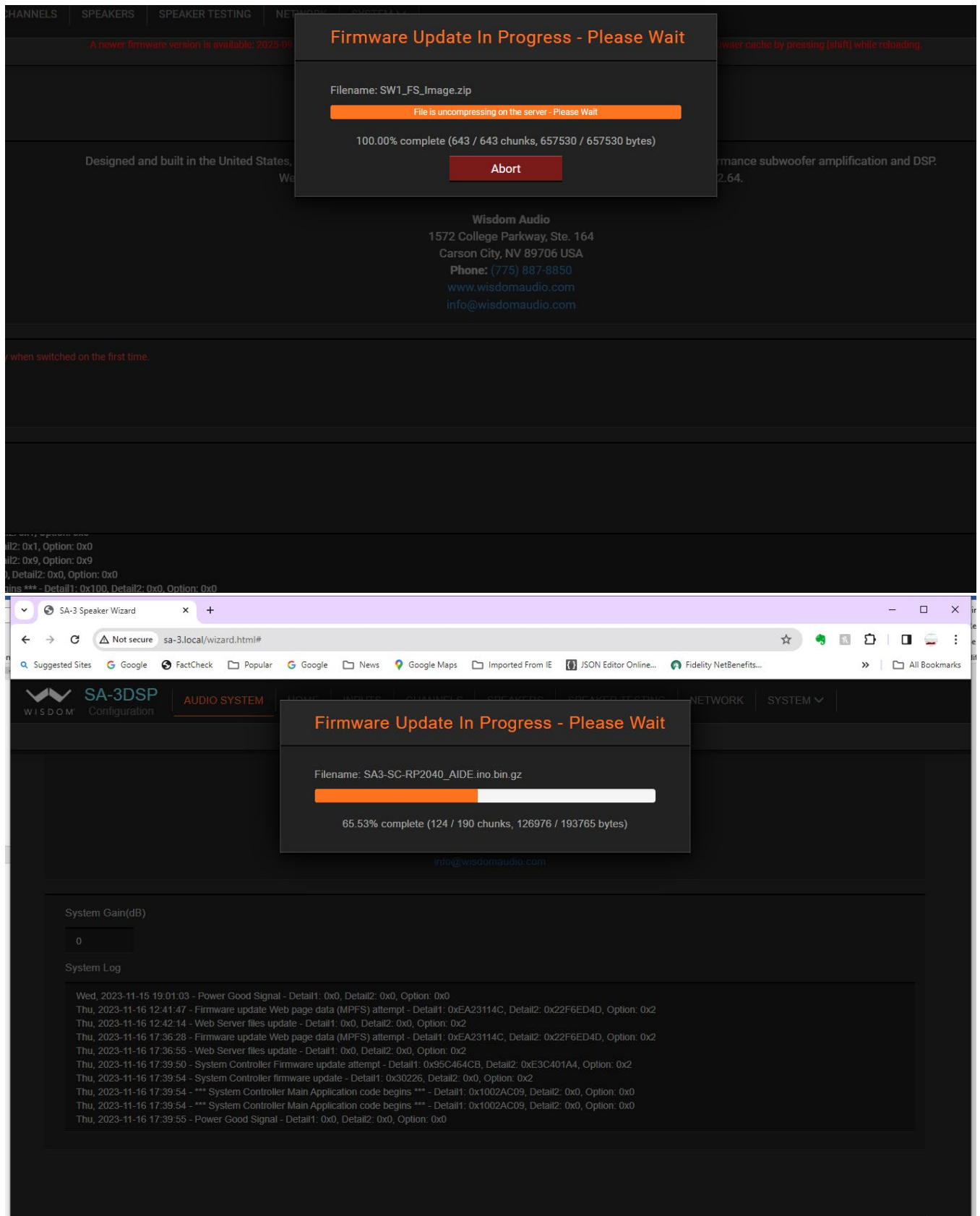


5. Upload of SA-x firmware files→ The Upload will automatically complete and reboot the system. There will be several files uploaded in sequence and there may be messages shown during upload.

NOTE: IF THERE ARE ANY ERRORS DURING UPLOAD AND THE FILE HAS FAILED, CANCEL/ABORT, THEN REFRESH THE PAGE AND/OR REBOOT THE AMPLIFIER TO TRY AGAIN. IN SOME CASES A REBOOT OF THE COMPUTER IS NEEDED TO CLEAR PARTIALLY UPLOADED FILES FROM THE NETWORK.

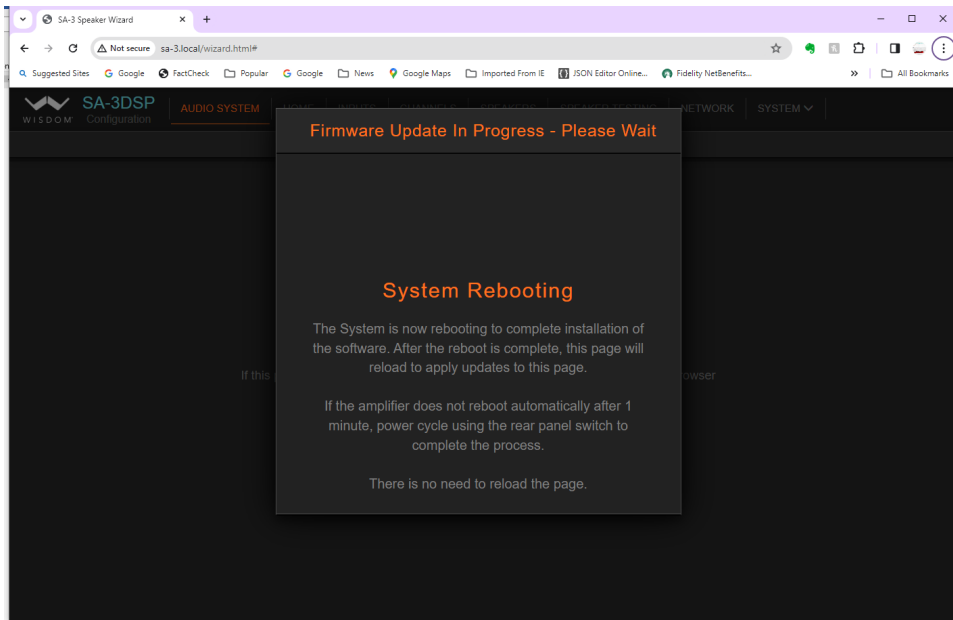


6.



7.

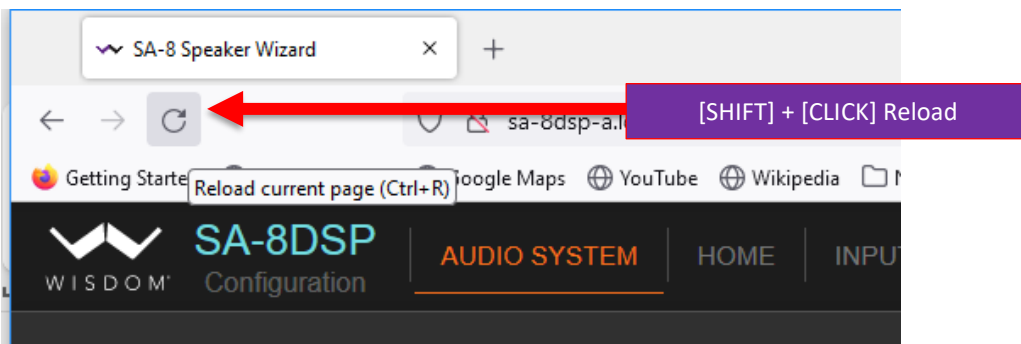
8. The download will complete and after approximately 30 seconds the web page will reload. You are now ready for the final page refresh as shown below.



- 9.
10. If the System does not reboot and reload after 1 minute, switch off the amplifier from the rear panel, wait for the Amber Standby LED to extinguish, and turn on again to complete the update.

Refresh the Web UI Interface

After the new files have been loaded into the SA-xDSP, it may be necessary to refresh the Web UI to make the new UI elements visible. Once you have opened your web browser and are on the setup pages for the SA-xDSP, hold down the SHIFT key and press the RELOAD:



Check the firmware has successfully completed

Check that the firmware on the main page shows the latest version. Also you can see the firmware and file system update attempts and update completion in the System Log.

The screenshot shows the SA-3DSP Configuration web interface. The top navigation bar includes links for AUDIO SYSTEM, HOME, INPUTS, CHANNELS, SPEAKERS, SPEAKER TESTING, NETWORK, and SYSTEM. The main heading is "Audio System". Below the heading, a red box highlights the text: "WebUI Version rev11 - SA3DSP RP2040 11-14-2023. System Controller Firmware Version 08.02.39." Below this, the Wisdom Audio logo and contact information are displayed. The System Gain(dB) is set to 0. The System Log section shows a list of events, with a red box highlighting the following entries:

- Thu, 2023-11-16 17:50:14 - *** System Controller Main Application code begins *** - Detail1: 0x1002AC09, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 17:50:14 - *** System Controller Main Application code begins *** - Detail1: 0x1002AC09, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 17:50:20 - Power Good Signal - Detail1: 0x0, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 18:05:30 - Firmware update Web page data (MPFS) attempt - Detail1: 0xEA23114C, Detail2: 0x22F6ED4D, Option: 0x2
- Thu, 2023-11-16 18:06:00 - Web Server files update - Detail1: 0x0, Detail2: 0x0, Option: 0x2
- Thu, 2023-11-16 18:06:20 - System Controller Firmware update attempt - Detail1: 0x95C464CB, Detail2: 0xE3C401A4, Option: 0x2
- Thu, 2023-11-16 18:06:20 - System Controller firmware update - Detail1: 0x80227, Detail2: 0x0, Option: 0x2
- Thu, 2023-11-16 18:06:25 - System Controller Main Application code begins - Detail1: 0x1002AC09, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 18:06:29 - *** System Controller Main Application code begins *** - Detail1: 0x1002AC09, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 18:06:30 - Power Good Signal - Detail1: 0x0, Detail2: 0x0, Option: 0x0